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# NOTICE OF ALLOWANCE AND FEE(S) DUE

36716

7590

05/23/2008

LADAS & PARRY 5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679 EXAMINER

PEACE, RHONDA S

ART UNIT

PAPER NUMBER

2874 DATE MAILED: 05/23/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759.511	01/15/2004	Hans W. Bruesselbach	B-4759NP 621649-7	7055

TITLE OF INVENTION: METHOD AND APPARATUS FOR COMBINING LASER LIGHT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/25/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	₹	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/759,511	01/15/2004	•	Hans W. Bruesselbach	s W. Bruesselbach B-4759N		759NP 621649-7	7055
APPLN. TYPE	SMALL ENTITY	RATUS FOR COMBINI	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
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PEACE, R		2874	2. For printing on the	notant front nogo lic			
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LADAS & PAR	RY	PEACE, RHONDA S			
5670 WILSHIRE BOULEVARD, SUITE 2100 LOS ANGELES, CA 90036-5679			ART UNIT	PAPER NUMBER	
			2874		
			DATE MAILED: 05/23/2008		

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/750 511	
Notice of Allowability	10/759,511 <b>Examiner</b>	BRUESSELBACH ET AL.  Art Unit
•		
	Rhonda S. Peace	2874
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. <b>THIS</b>
1. X This communication is responsive to the appeal brief filed	<u>3/20/2008</u> .	
2. X The allowed claim(s) is/are 1-5,7-14,16,17,19-28,30 and 3	<u>1</u> .	
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>	e been received.	
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •	
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>		
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	- ·	9-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal I	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	y (PTO-413),
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowance
	9.	
	/Rhonda S. Peace/, Exam /Michelle R. Connelly-Cus	niner, Art Unit 2874 Shwa/, Primary Examiner, AU 2874

#### **DETAILED ACTION**

# Allowable Subject Matter

Claims 1-5, 7-14, 16, 17, 19-28, 30, and 31 are allowed.

The following is an examiner's statement of reasons for allowance:

Pertaining to claims 1 and 9, the most applicable prior art, considered to be the teachings of Li (US 6,385,371) in view of Wong (US 5,408,556), does not disclose or reasonably suggest a fiber optic apparatus comprising a plurality of optical fibers, each optical fiber having a first end and a second end, said fibers being fused together along a section of each optical fiber proximate said first end of each said fiber to form a fused section having a fiber axis, wherein said fused section of said fibers is tapered to form a tapered region and said second end of each of said fibers is detached from one another. Moreover, said apparatus comprises a facet being formed by a combination of cutting and polishing, or by cleaving, said tapered region in a direction orthogonal to said fiber axis, wherein said facet has a cross-section other than approximately equal to a cross-section of an individual single mode fiber. The combination of Li and Wong fails to disclose or suggest a plurality of optical fibers bundled, fused, and tapered, and further fails to disclose or reasonably suggest a facet as required by claims 1 and 9. Li discloses a bulk element formed without fusing, and forming the structure of Li via a fusing process renders Li unsatisfactory for its intended purpose and changes its principle of operation. Therefore, claims 1 and 9 are considered patentable over the prior art, as the closest prior art fails to teach or reasonably suggest limitations recited therein.

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Concerning claim 5, the most applicable prior art, considered to be the teachings of Wong (US 5,408,556) in view of Russell et al (US 4,932,747), does not disclose or reasonably suggest a fiber optic apparatus comprising a plurality of optical fibers, each optical fiber having a first end and a second end, said fibers being fused together along a section of each optical fiber proximate said first end of each said fiber to form a fused section having a fiber axis, wherein said fused section of said fibers is tapered to form a tapered region, and a facet being formed a combination of by cutting and polishing, or by cleaving, said tapered region, wherein said plurality of fibers disposed in said fused section are stretched to provide a desired amount of optical coupling between each optical fiber, and each said fiber is adapted to receive an optical input from a plurality of optical inputs at said second end, and wherein said plurality of optical inputs are emitted into free space at the said facet as a single combined optical output. The combination of Wong in view of Russell et al does not disclose or reasonably suggest a fiber optic apparatus as described above, wherein the said optical inputs are emitted into free space at the said facet. Modifying Wong such that the optical inputs are emitted into free space at the facet cancels the lens coupled to the facet of Wong, and considered an essential feature of Wong. Therefore, the combination fails to teach or reasonably suggest the apparatus as required by claim 5, and claim 5 is in condition for allowance.

Addressing claims 11-13, 16, 17, and 19, the most applicable prior art, considered to be the teachings of Wong (US 5,408,556) in view of the knowledge of one of ordinary skill in the art, does not disclose or reasonably suggest a method for coupling light comprising providing a plurality of optical fibers, each fiber having a first

end, second end, and a central core extending between said first and second ends, fusing said fibers together along a section of each fiber proximate said first end to form a fused section, tapering said fused section such that a core diameter of each fiber proximate said first end is smaller than the core diameter proximate said second end, wherein tapering said fused section comprises uniformly stretching said plurality of fibers to provide a desired amount of optical coupling between each said fiber, forming a facet by a combination of cutting and polishing, or by cleaving, said fused section in a direction perpendicular to said core, and Illuminating said facet with a single optical input traveling in free space, and distributing said single input amongst each said fiber in said plurality of fibers to provide a plurality of distributed optical outputs. The combination of Wong in view of the knowledge of one of ordinary skill in the art does not disclose or reasonably suggest a fiber optic apparatus as described above, wherein the said facet is illuminated with a single optical input traveling in free space. Modifying Wong such that the facet is illuminated with a single optical input traveling in free space cancels the lens coupled to the facet of Wong, and considered an essential feature of Wong. Therefore, the combination fails to teach or reasonably suggest the method as required by claims 11-13, 16, 17, and 19, and claims 11-13, 16, 17, and 19, are in condition for allowance.

With regard to claim 14, the most applicable prior art, considered to be the teachings of Wong (US 5,408,556) in view of Russell et al (US 4,932,747), does not disclose or reasonably suggest a method for coupling light comprising providing a plurality of optical fibers, each fiber having a first end, second end, and a central core

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extending between said first and second ends, fusing said fibers together along a section of each fiber proximate said first end to form a fused section, tapering said fused section such that a core diameter of each fiber proximate said first end is smaller than the core diameter proximate said second end, wherein tapering said fused section comprises uniformly stretching said plurality of fibers to provide a desired amount of optical coupling between each said fiber, forming a facet by a combination of cutting and polishing, or by cleaving, said fused section in a direction perpendicular to said core, and providing an optical input at said second end of each said fiber, and further emitting said inputs as a single combined output into free space at said facet, thereby illuminating said facet with light. The combination of Wong in view of Russell et al does not disclose or reasonably suggest a fiber optic apparatus as described above, wherein the said optical inputs are emitted into free space at the said facet. Modifying Wong such that the optical inputs are emitted into free space at the facet cancels the lens coupled to the facet of Wong, and considered an essential feature of Wong. Therefore, the combination fails to teach or reasonably suggest the apparatus as required by claim 14, and claim 14 is in condition for allowance.

Pertaining to claims 20-26, the most applicable prior art, considered to be the teachings of Li (US 6,385,371) in view of Wong (US 5,408,556), does not disclose or reasonably suggest an apparatus for coupling light comprising a plurality of single mode optical fibers, each optical fiber having a first end and a second end, said fibers being fused together along a section of each optical fiber proximate said first end of each said fiber to form a fused section having a fiber axis, wherein said fused section of said fibers

is tapered to form a tapered region, and a facet being formed by a combination of cutting and polishing, or by cleaving, said tapered region in a direction orthogonal to said fiber axis, wherein said facet is adapted to receive a single optical input, the single input being distributed amongst each fiber in said plurality of fibers, wherein said optical input has a diameter and said diameter at said first end of a given fiber in said plurality of fibers is larger than the diameter of the same optical input at said second end of the given fiber, and wherein said facet has a cross-section other than approximately equal to the cross-section of an individual single mode fiber. The combination of Li and Wong fails to disclose or reasonably suggest a plurality of single mode optical fibers bundled, fused, and tapered, and further fails to disclose or reasonably suggest a facet as required by claims 20-26. Li discloses a bulk element formed without fusing, and forming the structure of Li via a fusing process renders Li unsatisfactory for its intended purpose and changes its principle of operation. Therefore, claims 20-26 are considered patentable over the prior art, as the closest prior art fails to teach or reasonably suggest limitations recited therein.

Concerning claims 27 and 31, the most applicable prior art, considered to be the teachings of Li (US 6,385,371) in view of Wong (US 5,408,556), does not disclose or reasonably suggest a fiber optic apparatus for comprising a plurality of single mode silica optical fibers, each optical fiber having a first end and a second end, said fibers being fused together along a section of each optical fiber proximate said first end of each said fiber to form a fused section having a fiber axis, wherein said fused section of said fibers is tapered to form a tapered region, and a facet being formed by a

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combination of cutting and polishing, or by cleaving, said tapered region in a direction orthogonal to said fiber axis, and wherein said facet has a cross-section other than approximately equal to the cross-section of an individual single mode fiber. The combination of Li and Wong does not disclose or reasonably suggest a plurality of single mode silica optical fibers bundled, fused, and tapered, and further fails to disclose or reasonably suggest a facet as required by claims 27 and 31. Li discloses a bulk element formed without fusing, and forming the structure of Li via a fusing process renders Li unsatisfactory for its intended purpose and changes its principle of operation. Therefore, claims 27 and 31 are considered patentable over the prior art, as the closest prior art fails to teach or reasonably suggest limitations recited therein.

Addressing claims 2-4, 7, 8, 10, 28, and 30, the most applicable prior art, considered to be the teachings of Wong (US 5,408,556) in view of the knowledge of one of ordinary skill in the art, does not disclose or reasonably suggest a fiber optic apparatus comprising a plurality of optical fibers, each optical fiber having a first end and a second end, said fibers being fused together along a section of each optical fiber proximate said first end of each said fiber to form a fused section having a fiber axis, wherein said fused section of said fibers is tapered to form a tapered region, and a facet being formed by a combination of cutting and polishing, or by cleaving, said tapered region, wherein said plurality of fibers disposed in said fused section are stretched to provide a desired amount of optical coupling between each optical fiber, wherein said facet is adapted to receive a single optical input traveling in free space. Moreover, each of said fibers comprises a core, cladding and mode shape, wherein the sum of the

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mode shapes of the fibers is calculated and the core/cladding size ratio and stretch is selected, to maximize coupling of the free space beam into the core ensemble, wherein said single optical input is distributed amongst each fiber in said plurality of optical fibers. The combination of Wong in view of the knowledge of one of ordinary skill in the art does not disclose or reasonably suggest a fiber optic apparatus as described above, wherein the said facet is illuminated with a single optical input traveling in free space. Modifying Wong such that the facet is illuminated with a single optical input traveling in free space cancels the lens coupled to the facet of Wong, and considered an essential feature of Wong. Therefore, the combination fails to teach or reasonably suggest the method as required by claims 2-4, 7, 8, 10, 28, and 30, and claims 2-4, 7, 8, 10, 28, and 30, are in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Response to Arguments

Applicant's arguments with respect to the rejection of claims 1-5, 7-14, 16, 17, 19-28, 30, and 31 have been fully considered and are persuasive. See pages 13-59 of the appeal brief filed 3/20/2008. The rejection of the above claims has been withdrawn.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rhonda S. Peace whose telephone number is (571)272-8580. The examiner can normally be reached on M-F (8-5).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272- 2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rhonda S. Peace/ Examiner, Art Unit 2874

> /Michelle R. Connelly-Cushwa/ Primary Examiner, Art Unit 2874 May 20, 2008